

TAIRIREX GP5350

General Purpose Polystyrene

Formosa Plastics Corporation

Message:

FCFC PS resin GP5350 meets the requirements of UL, SGS and the certificates of environmental protection.

General Information			
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
UL File Number	E162823		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.04	g/cm ³	ASTM D792
23°C	1.04	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	4.5	g/10 min	ASTM D1238, ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
23°C	45.1	MPa	ASTM D638
23°C	45.0	MPa	ISO 527-2
Tensile Elongation (Break, 23°C)	2.0	%	ASTM D638, ISO 527-2
Flexural Modulus (23°C)	3230	MPa	ASTM D790, ISO 178
Flexural Strength (23°C)	86.0	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact (23°C, 6.35 mm)	18	J/m	ISO 180, ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ¹ (1.8 MPa, Annealed, 3.18 mm)	90.0	°C	ASTM D648, ISO 75-2/A
Vicat Softening Temperature	96.0	°C	ASTM D1525, ISO 306/B
Flammability	Nominal Value	Test Method	
Flame Rating (1.50 mm, Natural Color)	HB	UL 94	
Additional Information	Nominal Value	Unit	
Residual Monomer	< 700	ppm	
Injection	Nominal Value	Unit	
Drying Temperature	75.0	°C	
Drying Time	1.0 to 2.0	hr	
Hopper Temperature	40.0	°C	
Rear Temperature	185	°C	
Middle Temperature	205	°C	

Front Temperature	215	°C
Nozzle Temperature	205	°C
Processing (Melt) Temp	180 to 225	°C
Mold Temperature	20.0 to 70.0	°C
Injection Rate	Moderate	

NOTE

1. 80°Cx2Hr

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